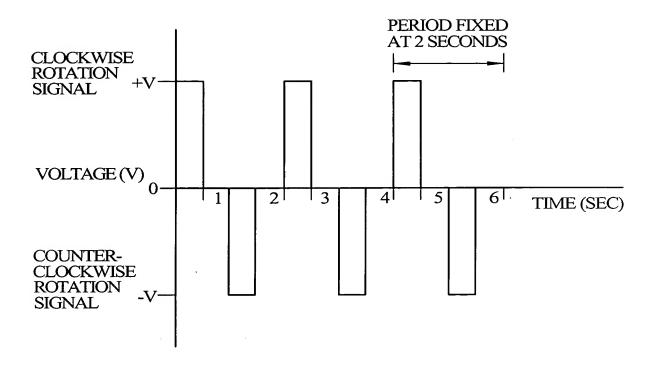
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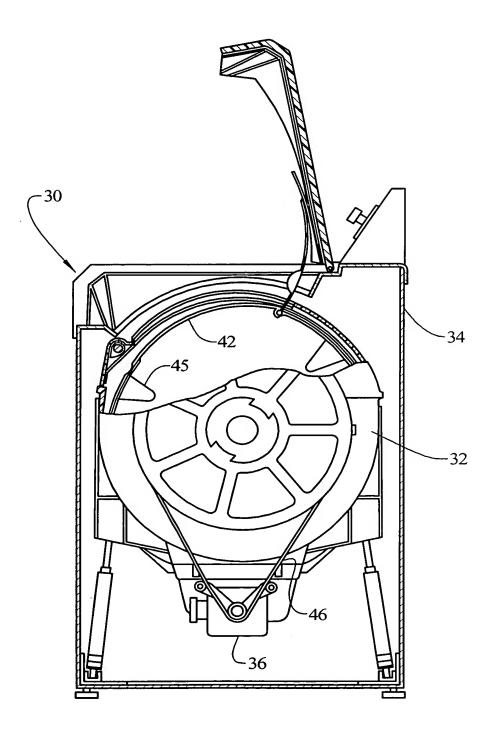
Sheet 1 of 7

<u>FIG. 1</u> PRIOR ART



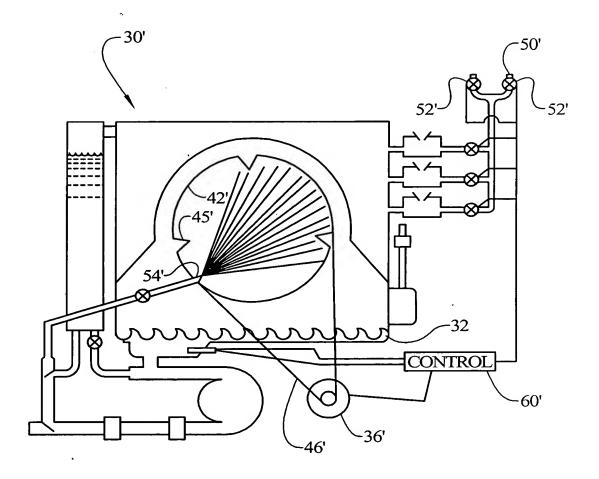
*FIG. 2* 





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*FIG. 3* 

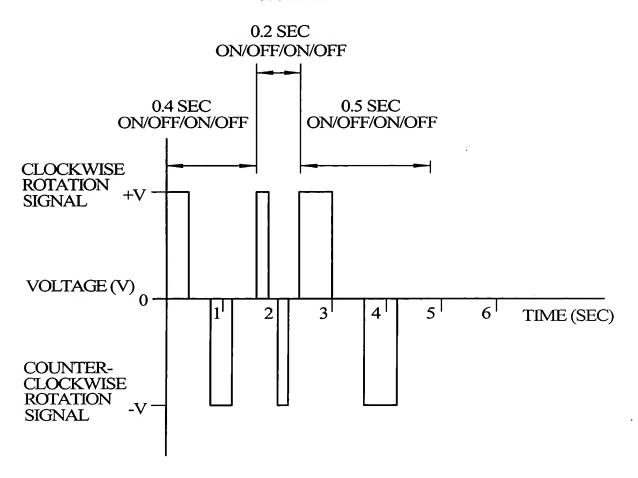


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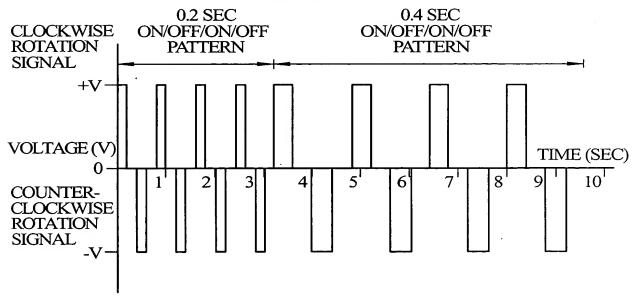
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## FIG. 5

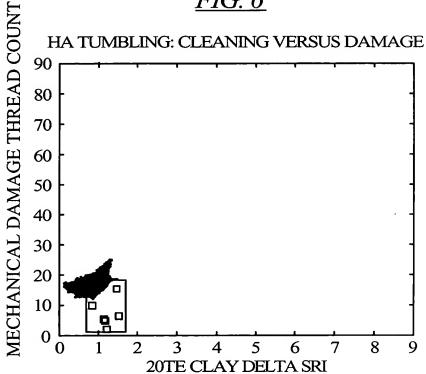


Docket No.: US20010207

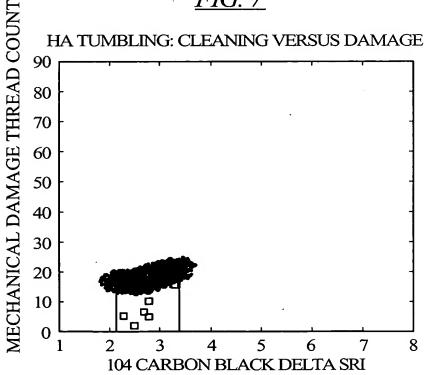
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*FIG.* 7



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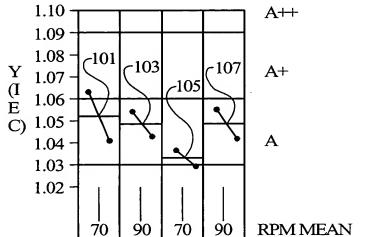
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*FIG.* 8

	CCW	CW
RPM MEAN (RPM)	70	70
RPM RANGE (RPM)	+/- 20	+/- 20
TORQUE (NM)	39	39
ON TIME (SEC)	0.3 - 0.5	0.3 - 0.5
OFF TIME (SEC)	0 - 0.3	0 - 0.3

*FIG. 9* 

	CCW	CW
RPM MEAN (RPM)	70	90
RPM RANGE (RPM)	+/- 10	+/- 20
TORQUE (NM)	39	44
ON TIME (SEC)	0.3 - 0.5	0.3 - 0.5
OFF TIME (SEC)	0.05	0 - 0.3



+/- 20

RPM RANGE

**TEMP** 

+/- 10

40 C

FIG. 10

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CW KFIM (RPM)		CCW RPM CW ON TIME (RPM) (SECONDS)	CW OFF TIME (SECONDS)	CCW ON TIME (SECONDS)	CCW OFF TIME (SECONDS)
FULL RANDOM A 50-90 FULL RANDOM B 30-75	50-90	0.135 - 2.0 0.135 - 1.0	0.135 - 2.0	0.135 - 2.0 0.135 - 1.0	0.135 - 2.0 0.135 - 1.0

	CW RPM (RPM)	CCW RPM (RPM)	CW DEG SWING (DEGREES)	CW OFF TIME (SECONDS)	CW RPM CW RPM CW DEG SWING CW OFF TIME CCW DEG SWING CW OFF TIME (RPM) (RPM) (DEGREES) (SECONDS) (SECONDS)	CCW OFF TIME (SECONDS)
DEGREE RANDOM A 30 - 100	30 - 100	30 - 100	180	0.1 - 1.0	180	0.1 - 1.0
DEGREE RANDOM B 20 - 60	20 - 60	20 - 60	240	0.135 - 1.0	240	0.135 - 1.0

	CW RPM (RPM)	CCW RPM (RPM)	RPM CHANGE (SECONDS)	CW DEG SWING (DEGREES)	CW OFF TIME (SECONDS)	CW RPM CCW RPM (RPM CHANGE CW DEG SWING CW OFF TIME CCW DEG SWING CW OFF TIME (RPM) (SECONDS) (SECONDS) (SECONDS)	CCW OFF TIME (SECONDS)	
RATCHET RANDOM   50 +/- 30   50 +/- 3	50 +/- 30	50 +/- 30	0.3	360	0.5	360	0.5	